APPENDIX

The Greek Alphabet

Upper case	Lower case	Name
A	α	alpha
B	β	beta
Γ	γ	gamma
Δ	δ	delta
E	ε	epsilon
Z	ζ	zeta
H	η	eta
Θ	θ	theta
I	ι	iota
K	κ	kappa
Λ	λ	lambda
M	μ	mu
N	ν	nu
Ξ	ξ	xi
O	ο	omikron
Π	π	pi
P	ρ	rho
Σς	σς	sigma
T	τ	tau
Y	υ	upsilon
Φ	φ	phi
X	χ	chi
Ψ	ψ	psi
Ω	ω	omega

Abbreviations and Acronyms

Many microprocessor, electronic and computer terms are conveniently referred to in their abbreviated or acronymic form. The following is a summary, taken from the Glossary, to act as a quick look-up. Industry-accepted conventions are used for the application of upper and lower case characters.

A	Amps
A to D	Analog to Digital
AC or ac	Alternating Current
ADP	Automatic Data Processing
ALGOL	ALGOrithmic Language
ALU	Arithmetic and Logic Unit
ANSI	American National Standards Institute
APL	A Programming Language
ASA	American Standards Association
ASCII	American Standard Code for Information Interchange
BAL	Basic Assembler Language
BASIC	Beginners All purpose Symbolic Instruction Code
BCD	Binary Coded Decimal
bit	*bi*nary dig*it*
bpi	bits per inch
bps	bits per second
BSI	British Standards Institute
CAD	Computer Aided Design
CAM	Computer Aided Manufacture
CCD	Charge Coupled Device
CCITT	Consultative Committee on International Telegraph and Telephone
cgs	centimetre gram second

CMOS	Complementary Metal Oxide Semiconductor
COBOL	COmmercial and Business Oriented Language
COM	Computer Output to Microfilm
cps	cycles per second
CPU	Central Processing Unit
CROM	Control Read Only Memory
CRT	Cathode Ray Tube
DAC	Digital to Analog Converter
DC or dc	Direct Current
DIP/DIL	Dual In Line Package
DMA	Direct Memory Access
DOS	Disk Operating System
DP	Data Processing
DTL	Diode Transistor Logic
EAROM	Electrically Alterable Read Only Memory
EBCDIC	Extended Binary Coded Decimal Interchange Code
EDP	Electronic Data Processing
EROM	Erasable Read Only Memory
EEROM	Electrically Erasable Read Only Memory
EIA	Electronic Industries Association
EPROM	Erasable Programmable Read Only Memory
F	Farads
FET	Field Effect Transistor
FIFO	First In First Out
FORTRAN	FORmula TRANslator
G^3	Gallium
Ge	Germanium
GIGO	Garbage In Garbage Out
H	Henrys
Hi	High
Hz	Hertz
IBM	International Business Machines Corporation
IEE	Institution of Electrical Engineers
IEEE	Institution of Electrical and Electronics Engineers

ic	integrated circuit
I^2L	Integrated Injection Logic
I/O	Input/Output
ISO	International Standards Organisation
JFET	Junction Field Effect Transistor
K	Kilo
KISS	Keep It Simple, Stupid
Laser	*L*ight *a*mplification by *s*timulated *e*mission of *r*adiation
LCD	Liquid Crystal Display
LED	Light Emitting Diode (or Display)
LIFO	Last In First Out
Lo	Low
LSI	Large Scale Integration
MAR	Memory Address Register
MOS	Metal Oxide Semiconductor
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
mips	*m*illions of *i*nstructions *p*er *s*econd
MKS	Metre Kilogram Second
MTTR	Mean Time To Restore (Repair)
MSI	Medium Scale Integration
Modem	*Mo*dulation *dem*odulation
MTBF	Mean Time Between Failure
NC	Numerical Control
NIH	Not Invented Here
nMOS or NMOS	n (or N) Channel Metal Oxide Semiconductor
npn	negative positive negative
oc	open circuit
OMR	Optical Mark Reader (or Recognition)
OCR	Optical Character Reader (or Recognition)
OEM	Original Equipment Manufacturer
OS	Operating System
op amp	operational amplifier

pcb	printed circuit board
PCM	Plug Compatible Manufacturer
PC	Programmable Controller
PERT	Project Evaluation Review Technique
PIA	Peripheral Interface Adaptor
PLA	Programmable Logic Array
PLC	Programmable Logic Controller
PL/1	Programming Language/One
pMOS or PMOS	p (or P) channel Metal Oxide Semiconductor
pnp	positive negative positive
pot	potentiometer
PROM	Programmable Read Only Memory
PRT	Platinum Resistance Thermometer
pd	potential difference (drop)
QC	Quality Control
RAM	Random Access Memory
RJE	Remote Job Entry
ROM	Read Only Memory
RPG	Report Program Generator
SI	International System (of measurement)
SIL/SIP	Single In Line Packaging
Si	Silicon
SIO	Serial Input Output
SOS	Silicon On Sapphire
SPOOL	Simultaneous Peripheral Operations OverLap
SQC	Statistical Quality Control
SSI	Small Scale Integration
sync	Synchronised, synchronous
TDM	Time Division Multiplexing
TRL	Transistor-Resistor Logic
TTL	Transistor-Transistor Logic
TTY	Teletype
UART	Universal Asynchronous Receive/transmit
ULA	Uncommited Logic Array

USASI	United States of America Standards Institute
uv	ultraviolet radition
V	Volts
VAB	Voice Answer Back
VDT	Visual (Video) Display Terminal
VDU	Visual (Video) Display Unit
VRC	Visual Record Computer
VLSI	Very Large Scale Integration
VeeMOS or VMOS	Vee grooved Metal Oxide Semiconductor
W	Watts
Z	Impedance

Multipliers

In quoting very large or very small values standard multipliers are used to avoid writing out the value in full. The most commonly used multipliers quoted as a prefix to the value are:

Prefix	Symbol	Multiplier
atto	a	10^{-18}
femto	f	10^{-15}
pico	p	10^{-12}
nano	n	10^{-9}
micro	μ	10^{-6}
milli	m	10^{-3}
centi	c	10^{-2}
deci	d	10^{-1}
deka	da	10
hecto	h	10^{2}
kilo	K	10^{3}
mega	M	10^{6}
giga	G	10^{9}
tera	T	10^{12}